# Fall 2009 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including USACE Erosion Survey

#### Sacramento River Basin

CT0002	Overall LMA	Total LMA				
ST0003 Sutter Maintenance Yard East Levee	Rating	Miles				
Sacramento River	Α	27.17				
						chments
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	PO Miles	CO Miles
Vegetation	0.02		0.02	0.07%		
Trim / Thin Trees	0.01		0.01	0.04%		0.00
Encroachments	0.19		0.19	0.70%		0.06
Animal Control	0.86		0.86	3.17%	2.22	2.22
LMA Totals:	1.08	0.00	1.08	3.98%	0.00	0.06
Unit No. 01 Sacramento River	Overall Unit	Total Unit				
	Rating	Miles				
	A	20.39				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	PO Miles	chments CO Miles
Trim / Thin Trees	0.01	O WIIIC3	0.01	0.05%	1 O WIIICO	OO WIIICO
Encroachments	0.19		0.19	0.93%		0.06
Animal Control	0.82		0.82	4.02%		0.00
Unit Totals:	1.02	0.00	1.02	5.00%	0.00	0.06
Unit No. 02 Colusa Bypass	Overall Unit Rating	Total Unit Miles				
	A	2.20				
		2.20			Encroad	chments
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	PO Miles	
No Items						
Unit Totals:	0.00	0.00	0.00	0.00%	0.00	0.00
Unit No. 03 Colusa Bypass	Overall Unit	Total Unit				
Ome ito: 00 Coluba Dypass	Rating	Miles				
	A	2.28				
						hments
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	PO Miles	CO Miles
Vegetation	0.02		0.02	0.88%		
Unit Totals:	0.02	0.00	0.02	0.88%	0.00	0.00
Unit No. 04 Moulton Bypass	Overall Unit	Total Unit				
	Rating	Miles				
	A	0.30				
Dated Item	N/ N/:100	I I Miles	M + ALL Miles	Throphold 0/		chments CO Miles
Rated Item	M Miles	U Miles	M + 4U Miles		PO Miles	CO Miles
Animal Control	0.01	0.00	0.01	3.33% 3.33%	0.00	0.00
Unit Totals:	0.01	0.00	0.01	J.JJ70	0.00	0.00
Unit No. 05 Moulton Bypass	Overall Unit	Total Unit				
	Rating	Miles				
	A	2.00			Гота	hm ont-
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	PO Miles	chments CO Miles
Animal Control	0.03	O Milico	0.03	1.50%	. 0 141103	20 1711103
Unit Totals:	0.03	0.00	0.03	1.50%	0.00	0.00
Offic Foldis.	0.00	0.00	0.00	1.00 /0	0.00	0.00

## **LMA District Cover Sheet**

## Fall 2009 Levee Inspection Results

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)					
* Overall LMA Rating (Fall Only)			A						
	** Non-receipt of Su	ımmer or Winter Inspe	ection Reports may effec	ct overall annual rating					
* SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.  FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.									
omments									

## **Unit Cover Sheet**

## Fall 2009 Levee Inspection Results

	Bank	Unit Miles			
	Unit No. 01 Sacr	ramento River		Left	20.39
	Spring (March - May)	Summer (June - August)	(September - November) Fall		Winter ber - February)
Unit Maintenance Rating (Fall Only)			A		
Date of Inspection	5/13/2009		10/12/2009		
DWR Inspector	Bob Duffey		Bob Duffey		
Accompanied By			Bryan Reniff Sutter Yard		
			Karen Hull Sutter Yard		
			Joel Farias Jr. Sutter Yard		
Check one:					
conditions other that deficiencies identified  During the current was project components maintenance and the following changes in (In the comment see	identified in the attached Leven the results of our normal mailed in the enclosed report.  vinter (or summer) inspection publication in the attached Levene corrections we have made to a flood project conditions.  ction below or on additional short (Land Side, Water Side, or Control of the results of the control of the c	period, my staff or I have linspection Report by a maintenance deficience eet(s), identify change	ections we have made to main e inspected the levee and asso Mile. In addition to the results cies identified in the report, we of condition by: Start to End Le	ociated fl of our no have for	ood ormal und the
Comments					
information must also be	3	eet should be signed ar	nd dated by the LMA Represer ch 31 (Winter Inspection). Plea aspection Reports e, Room LL-30	ntative an	d returned to
x					
Signature of LMA Repres	sentative		Date		

## Levee Inspection Report By Mile - Fall 2009

# **Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	10/22/2009 10/22/2009	Bob Duffey

LMR No.	Levee	Mile	Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude Start End	Issue No.
1		-	Earthen Levee	Encroachments			Buildings	39.194978 ° 39.195022 ° -121.937502 ° -121.938563 °	3
2	1.54	1.69	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	39.191057 ° 39.189465 ° -121.960547 ° -121.962527 °	18
3	5.37	5.37	Earthen Levee	Encroachments	LS	М	Prunings	39.217235 ° 39.217235 ° -122.003672 ° -122.003672 °	19
4	6.33	6.33	Earthen Levee	Encroachments	LS	М	Prunings	39.223637 ° 39.223637 ° -121.998848 ° -121.998848 °	20
5	6.42	6.42	Earthen Levee	Encroachments	LS	М	Material	39.224982 ° 39.225013 ° -121.998600 ° -121.998585 °	21
6	6.43	6.43	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	39.225133 ° 39.225133 ° -121.998597 ° -121.998597 °	22
7	6.93	6.96	Earthen Levee	Animal Control	LS	М	Exterminate rodents and backfill and compact or grout burrows.	39.229842 ° 39.230292 ° -121.995837 ° -121.995765 °	23
8	12.57	12.57	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	39.294880 ° 39.294880 ° -122.014133 ° -122.014133 °	13
9	13.18	13.18	Earthen Levee	Animal Control	ws	M	Exterminate rodents and backfill and compact or grout burrows.	39.303152 ° 39.303152 ° -122.013128 ° -122.013128 °	27
10	15.79	15.83	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	39.338152 ° 39.338323 ° -122.022677 ° -122.022230 °	24
11	16.01	16.36	Earthen Levee	Animal Control	LS	М	Exterminate rodents and backfill and compact or grout burrows.	39.340367 ° 39.344942 ° -122.023185 ° -122.023668 °	28
12	16.97	16.97	Earthen Levee	Encroachments	LS	М	Prunings	39.347280 ° 39.347280 ° -122.015095 ° -122.015095 °	26
13	17.71	17.81	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	39.355107 ° 39.356445 ° -122.009207 ° -122.008762 °	29
14	17.88	18.01	Earthen Levee	Animal Control	ws	M	Exterminate rodents and backfill and compact or grout burrows.	39.357513 ° 39.359033 ° -122.008460 ° -122.007390 °	30
15	18.04	18.18	Earthen Levee	Encroachments	LS	М	Equipment	39.359188 ° 39.359980 ° -122.006878 ° -122.004517 °	16
16	18.11	18.11	Earthen Levee	Encroachments	LS	М	Prunings	39.359718 ° 39.359718 ° -122.005793 ° -122.005793 °	31

\* Location LS : Land Side WS : Water Side CR : Crown \*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected

## **Unit Cover Sheet**

## Fall 2009 Levee Inspection Results

	Bank	Unit Miles				
	Unit No. 02 Co	lusa Bypass		Right	2.20	
	Spring (March - May)	Summer (June - August)	(September - November) Fall		Winter ber - February)	
Unit Maintenance Rating (Fall Only)			Α			
Date of Inspection			10/12/2009			
DWR Inspector			Bob Duffey			
Accompanied By			Bryan Reniff Sutter Yard			
Check one:						
project components conditions other that deficiencies identified  During the current v project components maintenance and the following changes in (In the comment see	vinter (or summer) inspection p identified in the attached Leve in the results of our normal mai ed in the enclosed report.  vinter (or summer) inspection p identified in the attached Leve ee corrections we have made to in flood project conditions.  ction below or on additional shin (Land Side, Water Side, or Conditions)	te Inspection Report by intenance and the correction, my staff or I have the Inspection Report by the maintenance deficience the correction report of the correction	Mile. We have found no change trions we have made to maint be inspected the levee and assorting. In addition to the results size identified in the report, we of condition by: Start to End Le	ges in flo tenance ociated fl of our no have fou	ood project  ood  ormal  und the	
Comments						
information must also be	3	eet should be signed an	d dated by the LMA Representh 31 (Winter Inspection). Pleaspection Reports , Room LL-30	itative an	d returned to	
x						
Signature of LMA Repres	sentative		Date			

## Levee Inspection Report By Mile - Fall 2009

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Colusa Bypass	Right	2.20	10/27/2009 10/27/2009	Bob Duffey

LMR	Levee Mile	Catagory	Item	Rati	Action/Comment	GPS Latitud	Issue No.	
No.		Category	tion	tion	Action/Comment	Start	End	Photo
1					No issues were reported.	۰	0	

## **Unit Cover Sheet**

## Fall 2009 Levee Inspection Results

	Bank	Unit Miles			
	Unit No. 03 Co	lusa Bypass		Left	2.28
	Spring (March - May)	Summer (June - August)	(September - November) Fall		Winter ber - February)
Unit Maintenance Rating (Fall Only)			Α		
Date of Inspection	3/23/2009		10/12/2009		
DWR Inspector	Bob Duffey		Bob Duffey		
Accompanied By			Bryan Reniff Sutter Yard		
project components conditions other that deficiencies identified.  During the current was project components maintenance and the following changes in the coordinates, location.  Comments  One of the boxes above is information must also be	vinter (or summer) inspection per identified in the attached Leve in the results of our normal mailed in the enclosed report.  vinter (or summer) inspection per identified in the attached Leve is corrections we have made to inflood project conditions.  ction below or on additional ship in (Land Side, Water Side, or Company of the conditions) is to be checked by the Local Mean submitted. This Unit Cover Shesheets by September 30 (Sum	the Inspection Report by intenance and the correction, my staff or I have the Inspection Report by the Inspection Report	Mile. We have found no chan ections we have made to main elements are inspected the levee and assorting the inspected the inspected that it is a second to the current of the current and the inspected that it is a second to the inspected that it is a second to the inspect and it is a second to the in	ges in flot tenance ociated fl of our ne have for evee Mile evet Condi	ood project  ood ormal und the e or GPS tion).
your records. Please mail	all of this information to : D	DWR Summer/Winter In 310 El Camino Avenue sacramento, CA 95821-	spection Reports , Room LL-30		
X					
Signature of LMA Repres	sentative		Date		

## Levee Inspection Report By Mile - Fall 2009

# **Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Colusa Bypass	Left	2.28	10/27/2009 10/27/2009	Bob Duffey

LMR	Levee Mile		Category	Item	Location *	Rating	Action/Comment	GPS Latitud	le/Longitude	Issue No.
No.	Start	End	Calegory	item	tion	ing	Action/Comment	Start	End	Photo
1	0.03	0.03	Earthen Levee	Trim / Thin Trees	LS	С	Trim trees to at least five feet above ground level.	39.236587 ° -121.993603 °	39.236587 ° -121.993603 °	4
2	1.98	1.98	Earthen Levee	Vegetation	LS	М	Elderberries are blocking visibility and flood fight capability.	39.244888 ° -121.965595 °	39.244888 ° -121.965595 °	10
3	2.16	2.19	Earthen Levee	Trim / Thin Trees	WS	С	Trim trees to at least five feet above ground level.	39.244823 ° -121.962300 °	39.244832 ° -121.961688 °	12
4	2.17	2.17	Earthen Levee	Vegetation	ws	М	Elderberries are blocking visibility and flood fight capability.	39.244838 ° -121.962072 °	39.244838 ° -121.962072 °	13

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected

## **Unit Cover Sheet**

## Fall 2009 Levee Inspection Results

	Waten	way		Bank	Unit Miles					
	Unit No. 04 Mou	ulton Bypass		Right	0.30					
	Spring (March - May)	Summer (June - August)	(September - November) Fall		Winter ber - February)					
Unit Maintenance Rating (Fall Only)			Α							
Date of Inspection	3/23/2009		10/12/2009							
DWR Inspector	Bob Duffey		Bob Duffey							
Accompanied By			Bryan Reniff Sutter Yard							
			Karen Hull Sutter Yard							
			Joel Farias Jr. Sutter Yard							
Check one:										
project components conditions other that deficiencies identified  During the current with project components maintenance and the following changes in the coordinates, location  Comments  One of the boxes above is information must also be some project components.	During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.  During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.  (In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).  Comments  One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to:  DWR Summer/Winter Inspection Reports 3310 El Camino Avenue, Room LL-30 Sacramento. CA 95821-9000									
L										
x										
Signature of LMA Repres	sentative		Date							

## Levee Inspection Report By Mile - Fall 2009

# **Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 04 Moulton Bypass	Right	0.30	10/22/2009 10/22/2009	Bob Duffey	

LMR	Levee	evee Mile Category	Item		Rati	Action/Comment	GPS Latitud	Issue No.		
No.	Start	End	Calegory	iteiii	ation	ing	Action/Comment	Start	End	Photo
1	0.13	0.13	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	39.337497 ° -122.019807 ° -	39.337497 ° 122.019807 °	

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected

# Flood Control Project Maintenance Levee Inspections

## **Unit Cover Sheet**

## Fall 2009 Levee Inspection Results

	Bank	Unit Miles							
	Left	2.00							
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)					
Unit Maintenance Rating (Fall Only)			Α						
Date of Inspection	3/23/2009		10/12/2009						
DWR Inspector	Bob Duffey		Bob Duffey						
Accompanied By			Bryan Reniff Sutter Yard						
Check one:  During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.  During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.  (In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS									
coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).									
information must also be	3	eet should be signed ar	nd dated by the LMA Represent ch 31 (Winter Inspection). Pleast spection Reports Room LL-30	tative an	d returned to				
x									
Signature of LMA Repres	sentative		Date						

## Levee Inspection Report By Mile - Fall 2009

# **Sutter Maintenance Yard East Levee Sacramento River**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Moulton Bypass	Left	2.00	10/27/2009 10/27/2009	Bob Duffey

LMR	Levee Mile		Category	Item	Loca	Rati	Action/Comment	GPS Latitud	Issue No.	
No.	Start	End	Category	пеш	ation *	ing	Action/Comment	Start	End	Photo
1	0.42	0.45	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	39.342852 ° -122.015438 ° -	39.342683 ° 122.014908 °	1

\* Location

LS : Land Side

WS : Water Side

CR : Crown

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected